Record Group 104. Entry 28.

Assay of Ingots Copper and Nickel 1857

Digitized September 14, 2023, Philadelphia, Pennsylvania.
Box 2, Book 19, for 1857.

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RG 104 RECORDS OF THE BUREAU OF THE MINT

Records of the U.S. Mint at Philadelphia
Operating Records
Records of the Assays

ASSAY WORKBOOKS, 1795-1905

Box 02 NC-152 Entry 28

2
HC1-80523392

n° 1

1857

Cent Ingots Copper & Nickel

Amt weighed for copper 5 gramme
" " " nickel 2 "

Melt			per ct
1 to 7	for copper		87-4 844
8 – 11	"		870
12-19	"		86
20-25	"		88 4
1 – 7	for nickel	363	13 7
8 – 11	"	15 344	12 6
12 – 19	"	15 352	13 5
20-25	"	9 362 9	13 9
26-31	copper 4354	4397	87 – 87
32-37	Zincy	4500	90
38-41		4313	86 4
42-47		4420	88 4
26.31	for nickel	431	mean
32-37	280	407	173 13.6
38-41	deducted for silver	412	
42-47		415	

For Nickel from 38-59 $\frac{941}{70}$ oxide
on 5 grms 13.6

The nickel from 26-47 10 ms
redissolved & precipitated
$\frac{1433}{60}$ oxide on 8 grms. 13.4
48-59 nickel $\frac{668}{60}$ ox 4 grm 12

48-53 for copper 3984-4259 R A
54-59 " 4354-4326 87-86½
48-53 R A 4302 86
60-65 4376 87.5
Same for nickel $\frac{367}{70}$ 19.7
66-74 copper 4260 85.20
" " " " 4233 84.66
75-79 " 4274 85.5
66-79 nickel $\frac{712}{70}$ 12.6
Combined assay for copper
from No 1 to 65 on 5 grms 85.72

Combined assay for nickel
from No. 1 to 65 on 5 grms $\frac{817}{76}$ 11.8

80.87 for copper 389
76 87.2

for Nickel 389
76 12.6

88-92 for cop 87.1

Nickel 370
70 11.8

93-100 Copper 86

3 Nickel $\frac{389}{76}$ 12.2

Mean 80 to 100 — 12.2

Sulp

No. 1-8 771 84.60 2200 87.8

9-19 763 84.75 2170 86.0

20.25 826 83.48

41

101-125 Nickel $\frac{1026}{60}$ 12.67

26.46 A 756 4250 85.5

" B 738 4262 85.2

" C 736 4266 85.3

9

126-46 Nickel 1056 13

60

No. 4 [illegible]

	Prov 155-4845		96,90	
147-173	A 847-4153		83,06	86 16
	B 793-4207		84-14	87 24
	C 750 4250		85,00	88,10
	D 866-4134		82,68	85,78
R. A	D 698 4302		86,04 pr	87,54 98,50
147-173	Nickel 392 70			12,67
No. 5	p.	4520	90,40	
174-205	A Cop 39			87.65
	B			88.86
	C			88.30
	D			87.20
174.205	Nickel			12 2 12 2
	p.	4905	98,10	
206.246	Cop A	4290	85.80	87.7
	B	4314	86.28	88.2
	C	4273	85,46	87.3
	D	4296	85.92	87.8
	Ni 361 65	296.		11.65

	Ps	4914	98,28	
247-302	A Cop	4265	85,30	87
	B	4310	86,20	87.9
	C	4278	85,56	87.25
	D	4305	8610	87.8
3100 wt	Nickel	576 70		11-3
303-334	Cop A	4319	86,38	88.1
	B	4293	85,86	87.6
	C	4285	85,70	87.4
	D	4311	86,22	87.9
	Nickel			12,2
	do			11.3
335-374				
	Cop	4348	86,96	90-
		4234	84.68	87.7
		4285	85.70	88.7
		4275	85,50	88.5
335-374	Ni	325 70	2 gr	~~12.1~~
	do	416 70	2100	12,9
375-408	Nickel	715 70		12.67
335-374	nick	533 70	3100	11,33
3100	do	515 - 1070		11,25

Ps 4914 - 9828

Ps 4852 - 9704

375.408 Cop	4260	85.20	86 72
	4294	85.88	87 40
	4287	85.74	87 26
	4200	84.00	85 52
P^t	4920	98.46	
409–440 Nickel	$\frac{638}{70}$		11.1
"			11 —
do Copper	4335	86.70	88.16
"	4330	86.60	88 06
P^t	4927	98.54	
R.A 1100-205	4279	85.58	88 18
" Nickel	$\frac{774}{92}$		13.3

May 14th 16 boxes 80 Ingots for assay

Cop	4268	85.30	87 76
	4208	84.16	86 62
1st lot	4260	85.20	87 66
	4307	86.14	88 60
	4877	97.54	
Nickel	$\frac{692}{70}$		12 23

441-480 4240. 8480 87.40
4270 $\overset{260}{85.40}$ Mof 88.00
Nickel 632 less 70 11-
May 15 481 to 521
Cop 4450. 89.00 – 92.80
" 4280 85.60 89.40 8
May 18 " R.A 4270. 8540 87.50
210 R
Pr " 4810 9620
Nickel 745 13-
80
675 11-8
70
16 boxes from Kensn " 48 Ingots for Assay
Cop " 4334 86.68 89.74
" 4265 85.30 88.36
" 4330 86.60 89.66
Pr 4847 96.94 00
2d lot Nickel - 11.4
R.A 206
Nickel 663 11-8
62 Sx
by assay
RA 2d lot from Kensington
4272 8544 87.56
4302 8602 88.12
pr 4895 9790

522-557	Cop	4285	8570	87.80
		4160	8320	85.30
	pr	4895	9790	
	Nickel	675 70		11-8
558, 601	Cop	4350	87.00	89.18
		4276	85.52	87.70
	pr	4891	9782	
	Nickel	846 20		12 8
3d lot May 23	8 boxes	Klaus 32 kg		
	Cop	4307	8614	88 64
		4346	8696	89 46
	pr	4875	9750	
	Nickel	643 20		12 25
602-641		645 20		12 3

4th lot

May 26 8 boxes from Kensington
Nickel 682-670
20
650 128

642-677 Ni 675
70 11-9

5th lot

June 2 9 boxes from Kens - 27 mg
Nickel 645
Reassay 665
70 11-7

June 2
678-707 Nickel 660
70 11.6

June 4 708-735 Nickel
668
70 11-7

6th lot

June 4 6 boxes from Kens 18 mg
Nickel 671
70 11-8

7th lot—

June 6 8 boxes from Kensing.
Nickel 667 11-7
70

8th lot—

June 9 8 boxes from Kensing
668 11-7
70

736-779— Clippings
668 reworked by boiling
656 11.7
60

780.831 665 12.0
60

9th lot from Kensington June 16
690 12.3
60
0

832-863 Clips } 656 11.7
864-879 Bars } 60

Reassays from No. 1 to 100

652
60
11-64

From 101 to 205

3157 543
70
11-8

From 206 to 302

3600 610
70
11-8

From 303 440

670
70
11-8

From 441-557

4200 .672
70
602
11,25

From 558-601

660
60
11-8

602-641	645 60	11-5
642-677	675 70	11-9
678-707	666 70	11-6
708-735	668 70	11-7
736-779	656 60	11-9
780-831	665 60	12.
832-879	656	11-7
880 - 937 - inclusive clips.	647 60	12.1

Kensington

Lot No. 1 80 ingots

655 11-8
60

Lot No. 2 48 ing

673 11-8
70

Lot No. 3 32 ing

656 11-7
60

Lot No. 4 24 ing

670 11-8
70

Lot No. 5 27

665 11-7
70

Lot No. 6 — 18

671 11-8
70

Lot No. 7 Kensington

24 ing 667 11-7
70

Lot No. 8 24 ing

668 11 7
70

Lot No. 9 21 ing

690 12 3
60

Lot No. 10 24 ing

672 12 0
60

Lot No. 11 666 11-9
60
606 151

Lot No. 12 643 11 5
60
583 14

Lot 13 657 11-7
60
597 149-25

Lot 14 671 – 660 11 8
60
600 150

" 15 645 11 3
70
575 — 143.75

" 16 687 –
77
610 – 152.5 12

" 17 690 No. 19 12 4
60
630 157.5

" 18 734 * 13 25
60
674 168.5

" 19 734 * 13 25
60
674 – 168.5

Clif 938 – 999
708 12 5
70
638 159 –

* should be Nos 17 & 18

Lot 20 705 12.5—
70
635 159—

21 700 12.4
70
630 157.5

22 710 12.6
70
640 160

23 720 12.7
70
650 162.5

24 721
70
651 162.7 12.8

25 725 710
60
650 162.5 12.7

Clippings

1000 to 1113

725 715— 1266
60
655
164

Lot 26 730—720
60
660 165 13—

Lot 27 727 - $\begin{array}{r}714\\ \underline{60}\\ \underline{654}\\ 1635\end{array}$ 128

Clippings 1000 - to 1147 inclusive

$\begin{array}{r}713\\ \underline{70}\\ 643\end{array}$ 16075 $\underline{1265}$

Repd for July 31st 1857

Lot 25 Aug 5 719 - $\begin{array}{r}703\\ \underline{60}\\ 643\end{array}$ - 160¾ 12 65

Silex 24 it is probable that a small

Iron $\underline{31}$ amt of potash still remains after

55 washing after ignition a little

Potas 7½

Lime & Alumina 5 5 lime & alumina may have

$\underline{60}$ been contained in the oxide of nickel

Aug 7 713 $\begin{array}{r}700\\ \underline{60}\\ 640\end{array}$ 160 12.59

Aug 10th 655 11.5
70
585 146.25

Aug 11 677 – 659
67
Broke 2 Pil 592 – 148 11.6

Result from Nickel scale to be 98 per c
645
70
575 144 113

Aug 13 406 – 690
60
630 – 157.5 12.4

R A Lot 63 & 64
676 665
60
605 151.4 119

Buck Limonite Co Lot - 33

Aug 15 - 700 687⁵
60
627 156,75 12,3

Aug 15 1234 to 1257 original melts
680 668
60
608 152 11,96

Aug 18 eight boxes -
727 - 715
60
655 - 163,75 12 88

Aug 21 12 boxes -
694 681
70 60
624 621 - 155.4 12.2

Aug 21 English Nickel on 2 gms

oscill $\begin{array}{r} 2450 \\ \underline{60} \\ 2390 \end{array}$

2470 - 94.—

Aug 24 8 boxes from Buckh

694 12 2

70

Aug 25 694 - 12 2

70

Aug 27 700 12.4

70

Aug 31 711 $\begin{array}{r} 688 \\ \underline{60} \\ 628 \end{array}$ 12 35

70

Sept. 1 1349 to 1381 original

Silex 23 687 – 674
60
614 153½ 12.1

Iron 28
51
5
56

2 713 – 700
60
640 160 12.6

Clippings from 1148 to 1381 inclu

718
70 12.7

Sep 4 706 – 689 sixteen melts
60
629 157¼

Sep 8 711 22 Silex
85 51 Iron
626 12 Potash 12.3
166½ 85

Sep 18 Melts 944 to 1449 -
678 665 -
60
605 - 151¼ 11-9

Sep 14 685 - 676 Sixteen
60
616 154 - 12/1

Sep 16 660
70
590 147½ 11-6

Sept 21 670 Iron 50 Eight
83 Silex 23
587 73
147 - Pit 10 11-5 -
83

24 650 Iron 40 Sixteen
67 Silex 23
583
145.75 - Silic 4 11-4
67

Sep 26th 654 Sixteen
86
571 Iron 45 11.2
142 Silex 27
4
76

29 655 Fifteen
70
585 Silex 27 6
146¼ Iron 28 11.5
4
59

8 boxes
Octr 2 653 . 143 Silex 23
57 Iron 30 6
586
146½ Salts 4 11.5
57

8 boxes
Octr 3 679 Silex 24
70 Iron 32½ 12
609
152¼ Limst. 3½
Potl 11
70

16 boxes
Octr 6 672 Silex 23 11.96
68
604 Iron 30
152 Lime 3½
Potr 11
67½

16 boxes

Oct 8 714 — 703½ Silex 23 12 6

140 63 Iron 25

644 640½

160 4

11

63

Sixteen boxes

Octr 12 692 Silex 18 12 2

70

622 Iron

155½

Clippings for September

703 Silex 26½ 12.4

73 Iron 33

630

157½ Lit 4

63

10

73

Given for June

14 680 eight boxes

70

610 12—

152½

Oct. 14 Nickel — Silex 5

1275 from Sul. Hy 4

after Wash 1255 Silex 19
44
1211 95\3 Iron 21

40
4
44

Nickel

1274 Silex 5

after Wash. 1253 acid 2
43
3

1210
787 Sul Hy 1
8470
9680 Silex 14
8470
95 2270 Iron 25

39
4
43
Lime 2
45

Another 1275

not completed a

one Melt from Bar Nickel

659 Silex 22 11-8
67 Iron 31½
592 Lime 3½
148 Potash 10
67

Oct 19 Eight boxes
664 ×
70
594 - 148½ 11-6

21 Sixteen boxes
650 Iron 34 11-4
70
580 Silex 22
145 Lime 4
Potash 10
70

23 17 Melts from bar Nickel
680 - 67½ 22 12
69
611 52½
153 3½
78

Included
in the 22 melts

Oct 27 Sixteen boxes 10

4

665 Silex 24 11.69

79

592 14875 Iron 34

48

three melts from D° Accumulati

645 Silex 24 12.06

162 Iron 24

613 lime 4

153.25 pot 10

62

Oct 28 Seven boxes 11.7

666

70

596

17 Melts

700 Silex 24½ 12.3

75 Iron 35½

625 4

1564 11

75

Oct 29
61.89

22 Melts

670 24 11.9

63 25

607 4

152 53

10

63

Nov 2d 17 boxes from Buck

682
70
612
153

Silex 27
Iron 35
3½
10
75½

12,00

1788
1830

Nov. 3. 42 Miles

687
70
619
154¾

121

1831 nov 5

1145

690
70
620
155

upset after the determination of the order

12,2

Nov 7th boxes Buck Silex

658
70
588
147

11.56

Nov 11

700
42
658
70
588
147

11.56